

Designation: ddrxxa01a-03 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, PLB

Floor towards attic (uninhabitable) - ddrxxa01a-03

floor towards attic (uninhabitable), timber frame construction, suspended, dry, other surface

Performance rating

 $\begin{tabular}{lll} Fire protection & REI & 60 \\ performance & \\ maximum span = 5 m; maximum load E_{d,fi} = 3,5 kN/m^2 \\ \end{tabular}$

maximum span = 5 m; maximum load $E_{d,fi}$ = 3,5 kN/m² Classified by HFA

Classifica by Till T

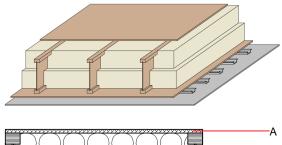
 $\begin{array}{ccc} \textbf{Thermal performance} & \textbf{U} & 0.10 \ \text{W/(m}^2 \text{K)} \\ & \textbf{Diffusion} & \text{suitable} \end{array}$

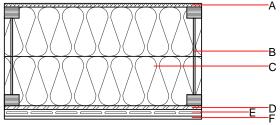
The stated thermal characteristics in the product data sheet are specified for the hard board intermediate web; the flanges are calculated with solid wood. Calculated by HFA

Acoustic performance R_w (C;C_{tr}) 41 dB $L_{n,w}$ (C_i) Assessed by HFA

Mass per unit area m 64.80 kg/m^2

Calculation based on gypsum plaster board type DF





Note: gypsum plaster board type DF/ gypsum fibre board 2x12,5

Register of building materials used for this application, cross-section (from outside to inside, dimensions in mm)

	Thickness	Building material	Thermal pe	rformance			Reaction to fire
			λ	μ min – max	ρ	С	EN
Α	15.0	fibreboard (MDF)	0.140	11	600	1.700	D
В	400.0	Light composite wood-based beams (I-beams) with solid wood flanges (60/45) and hard board intermediate web (\geq 6,7)	0.400	20 - 30	800	1.700	D
С	400.0	Cellulose fibre [040; 50]	0.040	1	50	2.000	E
D	15.0	OSB	0.130	200	600	1.700	D
Е	27.0	metal rail					
F	25.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
F	25.0	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

Ol3_{Kon} 29.0

Calculated using gypsum plaster board type DF Calculated by HFA



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Details of sustainability rating

Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO ₂ -e.]	[kg SO ₂ -e.]	[kg PO ₄ -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.138	0.061	2,31E-6	0.018	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]